MYIC/TSBG/RED-1984-69

NEMORANDON POR:	Director, National Photographic Interpretation Center		
SUBJECT :	Proposed Contract with Experimental Work for Improvement of Lamp Performs for High Intensity Light Tables at a Cost	for 25)	_

- 1. This memorandum requests approval for the commitment of funds for a contract. The specific request is stated in Peregraph 7.
- 2. With the increased quality of imagery from intelligence reconmaissence systems and the development of improved optical systems to view the imagery, a need currently exists for an improved, more uniform, higher intensity light source for light tables. Past attempts to increase the intensity of light tables have resulted in excessive heat which, in turn, required elaborate coolent systems. In the past, when high intensity light sources (3,000 foot lemberts) were provided to insure adequate illumination to view imagery with high magnification optics, it has been difficult to provide uniform dimming down to 100 foot lemberts without discernible flicker The short delivery schedules required -- because these light tables were required to handle imagery from contemporary acquisition systems -- have not permitted manufacturers adequate lead time or enough incentive to thoroughly investigate improved lighting systems. The resulting light tables have often exhibited uneven lighting (differential intensity across the format), inadequate disming range, large bulky transformers, and costly and hard to maintain coolant systems.
- 3. The proposed program is directed toward developing techniques to obtain a uniform, high intensity light over a 10" by 20" area without resorting to liquid coolants; providing uniform dimming down to 100 feet lamberts without discernible flicker; limiting the heet rise of the viewing surface to less than 35°F, above ambient, while, at the same time, reducing the size and weight of the transformer required; and keeping the manufacturing cost at a level competitive with present day light sources. The contractor will perform research and will breadboard new lighting system concepts, periodically reporting the results of the research and tests.
- This project has a reasonable chance of successfully accomplishing all of the goals and a good chance of plishing individual goals because the contractor is taking new, tech-

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Declass Review by NIMA/DOD

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Approved For Release 2004/05/05 : CIA-RDP78B05171A000600010104-8

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CANDERDAY :	mental Work for Improvement of Lamp Performance for alga
	Intensity Light Tables at a Cost of
	sound, and imaginative approaches to the problems. The con-
nicelly	hes proposed new methods to dissipate heat from the lamp sources
tractor i	d electronic methods of increasing the lemp intensity as well
	are an acceptable dimension value. The Contractor has periodical
very set	isfactorily on previous contracts and has the necessary skills
to perfo	ra this work.
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5.	The results from this study will be used in writing specifica-
tions for	r future light tables and will possibly be used to modify present
systems.	
6.	The sterility code 1 is appropriate for this project. The work
and repo	rts will be unclassified.
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	It is requested that approval be granted to negotiate a contract to conduct the progrem described at
with	NV.
a cost n	ot to exceed
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	Chief, Technical Services & Support Group,
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1.	Proposal
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